

Appl. No. 10/017,252  
Ex parte Quayle Office Action dated October 18, 2006  
Reply to Ex parte Quayle dated November 30, 2006

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**Remarks/Arguments**

a. History:

In the Office Action dated August 7, 2006, the Examiner indicated that the pending claims are subject to restriction to one of the following inventions under 35 U.S.C. 121. The identified inventions are:

- I) Claims 1-11, drawn to a semiconductor signal manipulating device, classified in class 455, subclass 333.
- II) Claims 12-20, drawn to an RF signal control device for converting RF signal to IF signal, classified in class 455, subclass 323.
- III) Claims 21 and 22, drawn to a method of mixing an applied current, wherein the current are channeled by potential wells, classified in class 455, subclass 23.

Responsive to the August 7, 2006 Office action, Applicant provisionally elected claims 1-11.

b. Present Office action:

In the present Office Action (Ex parte Quayle) dated October 18, 2006, the Examiner acknowledged the election of group I, claims 1-11 with traverse, but disagreed with Applicant's arguments for the traversal and made the restriction requirement final.

Additionally the provisionally elected claims 1-11 have been allowed, however an objection to claim 8 was raised as a result of some informalities. Prosecution on the merits has been closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11,453 O.G. 213.

1. Claim 8 is objected to because of the following informalities: the recitation "the plurality of heavily doped output contacts" should be changed to -the plurality of output contacts-; the recitation "the first set" should be changed to -a first set--; the recitation "the second set"

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should be changed to -a second set--. The Examiner has indicated that appropriate correction is required.

Accordingly, Applicant has amended claim 8 as noted above in the claim listing and thus believes this objection has been overcome. Therefore, Applicant respectfully requests that the Examiner reconsider and withdraw this objection to claim 8.

2. Claims 1-11 have been allowed.

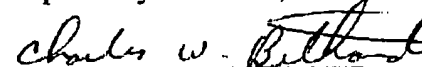
Applicant agrees that claims 1-11 are allowable over all references of record.

3. Claims 12-22 are hereby canceled without prejudice.

Accordingly, Applicant respectfully submits that claim 8 as amended along with claims 1-7 and 9-11 are allowable. A Notice of allowance is respectfully solicited at an early date. If the Examiner has any suggestions or comments or questions, calls are welcomed at the phone number below.

Although it is not anticipated that any fees are due or payable, the Commissioner is hereby authorized to charge any fees that may be required or credit any overpayments to Deposit Account No. 50-3435.

Respectfully submitted,



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